



## K 160 EC MEV FAN

Item number 2580 – [SAP APPENDIX Q Approved down to 0.24](#)

### Description

- EC-motors, high level of efficiency
- 100% speed controllable
- Speed regulator included
- Integrated motor protection
- Supplied with mounting bracket



EC technology is intelligent technology; using integral electronic control which eliminates the slip losses in the motor and ensures that the motor always runs at optimal load and guarantees that the proportion of energy utilised effectively is many times higher and the energy usage considerably lower compared with AC motors.

EC fans are notable for their economical use of energy and excellent ease of control. They can be varied in speed to match the airflow demand, and operate at high efficiency levels. For the same air volume, they consume distinctly less energy than AC fan drives.

Another special feature of EC fans is their energy-saving potential not only at full load, but especially at part-load. When operating at part-load, the energy used is much lower than with an asynchronous motor of equivalent output. Reduced energy usage guarantees a drop in operating costs.

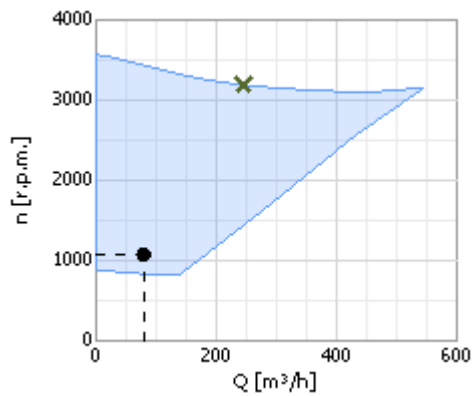
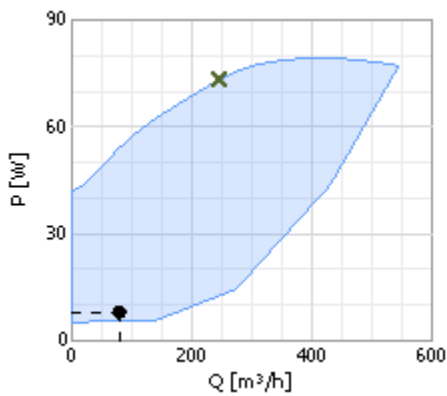
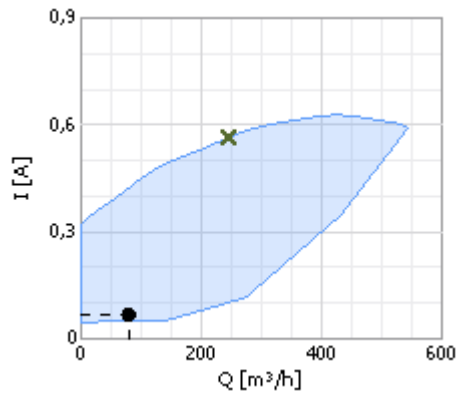
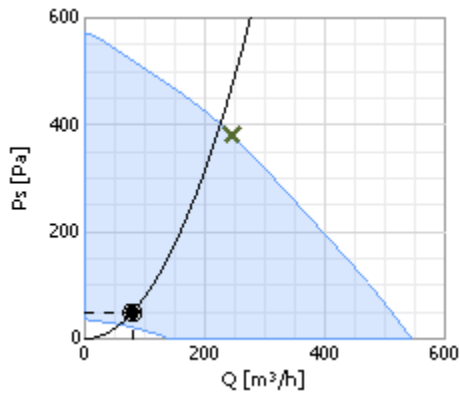
The K EC series is designed for installation in ducts. All the K-fans have minimum 25 mm long spigot connections. The fans have backward-curved blades and external rotor motors (EC). The FK mounting clamp facilitates easy installation and removal, and prevents the transfer of vibration to the duct. The fans are delivered with a pre-wired potentiometer(0-10V) that allows you to easily find the desired working point.

Motor protection is integrated in the electronics of the motor. The casing is manufactured from galvanised sheet steel with the seams folded to give the fan a close to air tight casing. Outdoor mounting and wet room applications are possible due to the fans air tight casing and the IP 55 rated terminal box with a IP 68 rated M20 cable gland.

### Technical parameters

Parameter	Value	Unit
Voltage	230	V
Frequency	50/60	Hz
Phase	1	~
Power	79,4	W
Current	0,628	A
Max.airflow	544	m <sup>3</sup> /h
R.p.m.	3 105	r.p.m.
Sound pressure level at 3 m	46,6	dB(A)
Weight	3	Kg
Insulation class, motor	B	
Enclosure class, motor	44	IP
Max. temperature of transported air	60	°C
Max. temperature of transported air when speed-controlled	60	°C

### Diagrams

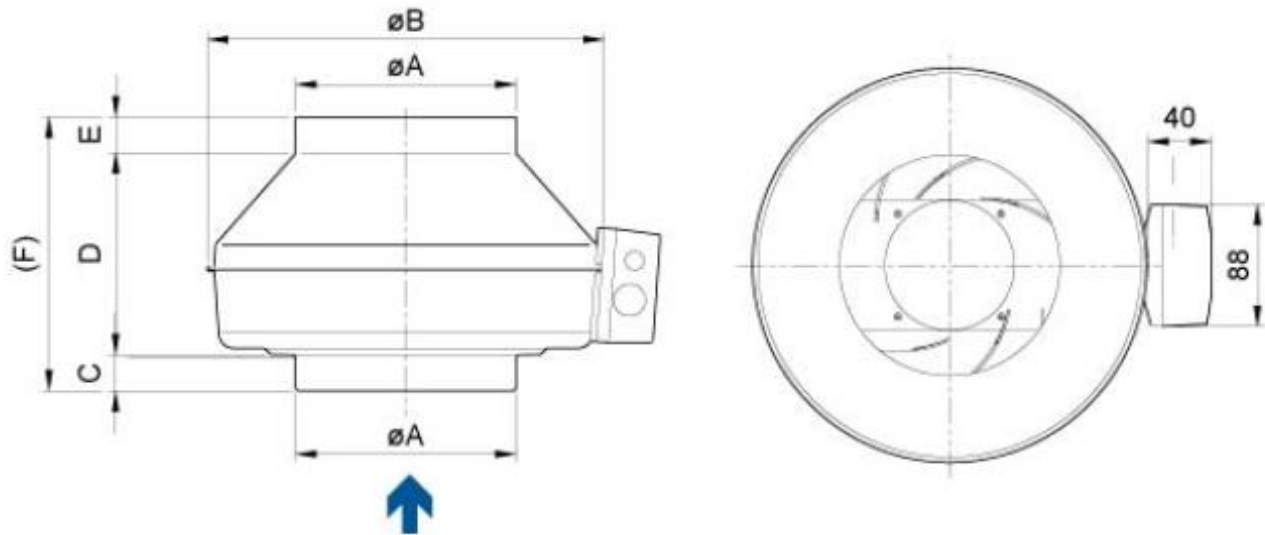


### User selected data

O Selected Point		● Working point							
Q[m³/h]	Ps [Pa]	Q[m³/h]	Ps [Pa]	P [W]	n [r.p.m.]	I [A]	U [V]	SFP [kW/m³/s]	E [%]
78,9	49,1	78,9	49,1	8,1	1076	0,0676	3,29	0,369	12,3

	Mid frequency band								
	63	125	250	500	1k	2k	4k	8k	Tot
Inlet Lw dB(A)	38	45	44	42	35	29	22	20	49
Outlet Lw dB(A)	50	44	44	41	33	28	23	20	52
Surrounding Lw dB(A)	11	1	10	19	15	11	6	3	22

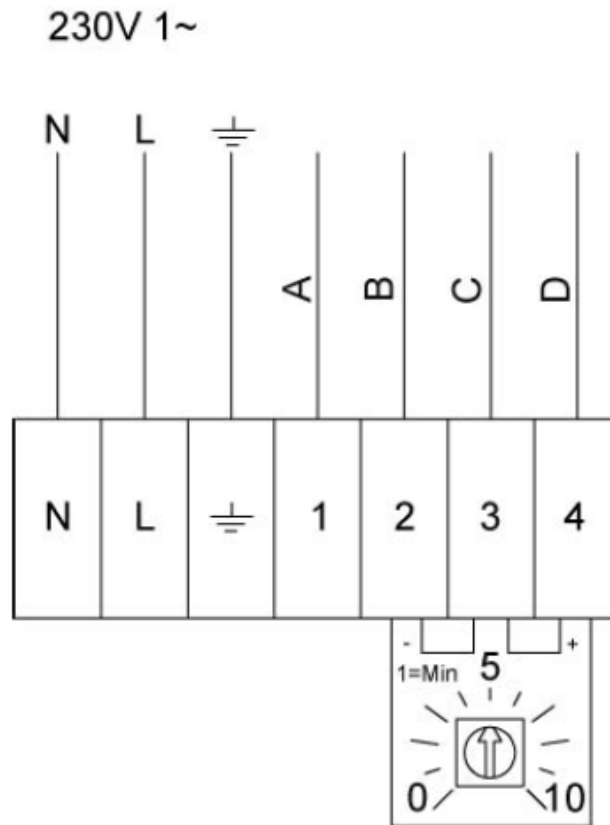
### Dimensions



	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>(F)</b>
K 160EC	159	286	25	147	26	198
K 200 EC	199	336	30	148	27	205
K 250 EC	249	336	30,5	144,5	27	202
K 315 M EC	314	408	32,5	160,5	27	220
K 315 L EC	314	408	37,5	160,5	27	225

## Wiring

Internal potentiometer, default



- A White
- B Blue
- C Yellow
- D Red

## Accessories

### Electric accessories

DMD-C Pressure controller  
 MTP 10, 10K, Speed control  
 MTV-1/010 Controller 0..10V

### Accessories

CB 160-1,2 230V/1 Duct heater  
 CB 160-2,1 230V/1 Duct heater  
 CB 160-2,7 230V/1 Duct heater  
 CB 160-5,0 400V/2 Duct heater  
 CBM 160-2,1 230V/1 Duct heater  
 CWK 160-3-2,5 Duct cooler,circ  
 FFR 160 Filter cassette  
 FGR 160 Filter cassette G3  
 FK 160 Fast clamp

IGC 160 Intake grid  
 IGK 160 Wall Grid  
 LDC 160-600 Silencer  
 LDC 160-900 Silencer  
 RSK 160 Back draft damper  
 SG 160 Protection guard  
 THB 160 Hood w. cover pl. Red  
 THB 160 Hood w.cover pl. black  
 THS 160 Hood w. cover pl. Red  
 THS 160 Hood w.cover pl. black  
 VBC 160-2 Water heating batt  
 VBF 160 Water heating battery  
 VK 15 Louvre shutter  
 VKK 160 Back draft damper